

WACKER

CREATING TOMORROW'S SOLUTIONS

GENIOPLAST®

PLASTICS | PERFORMANCE ADDITIVES

TUNE UP
YOUR ENGINEERING COMPOUNDS



GENIOPLAST® additives are suitable for wide range of applications such as household appliances, housing for computers, vehicle construction and electric/electrical appliances.

GENIOPLAST® PELLET S AND PELLET P PLUS

This unique combination of high-viscosity silicone gum and a specially modified silica provides optimum efficiency together with universal compatibility in thermoplastics. GENIOPLAST® Pellet S and Pellet P Plus provide unique processing benefits and improve surface quality. In contrast to many other additives, GENIOPLAST® Pellet S and Pellet P Plus do not negatively affect physical properties, such as tensile and impact strength. In mineral-filled compounds GENIOPLAST® Pellet S and Pellet P Plus actually enhance impact strength.

Two Grades for All Your Needs

GENIOPLAST® Pellet S provides solutions for technical applications. In addition, GENIOPLAST® Pellet P Plus is suitable for food-contact applications.

GENIOPLAST® Pellet S and Pellet P Plus Enhance Productivity

Addition of 0.1 – 1%	Addition of 1 – 5%
Improves the processing and flow for the compounder and the downstream processor	Improves the surface properties of parts
Reduces extruder torque and die pressure	Improves smoothness and gloss
Significantly increases throughput	Reduces coefficient of friction
Reduces deposits	Increases scratch and abrasion resistance
	Improves physical properties of compounded parts



GENIOPLAST® is a registered trademark of Wacker Chemie AG.

UPGRADE THE PERFORMANCE OF ENGINEERING COMPOUNDS

Engineering polymer compounds include: polyamides, polycarbonates, polyacetals, polyesters (PET and PBT) and polyphenylene ethers (PPE), as well as their blends with styrene copolymers and polypropylene, modified with various types of additives, fillers or reinforcing agents. Engineering compounds are primarily used in automotive and in electrical and electronic applications. GENIOPLAST® Pellet S and Pellet P Plus also make a key contribution to enhancing a compound's properties.

GENIOPLAST® Pellet S and Pellet P Plus in Polycarbonate Blends and Biopolymers

Polycarbonate blends (PC/ABS) are primarily used in the electrical and electronics sectors to manufacture housing parts for PCs, laptops, printers, copiers, as well as video and audio equipment. Important factors are good processing properties, good demolding and scratch-resistant surfaces. Biopolymers, e.g. polylactic acid (PLA), are likewise gaining importance in this application field.

GENIOPLAST® Pellet S in Polyacetal

Polyacetal (polyoxymethylene, POM) is an engineering polymer primarily used in vehicle construction and in the manufacture of moving parts in electrical systems/electronics. POM is known for its good antifriction and wear characteristics, as well as chemical resistance. It is therefore often used as an alternative to metals.

GENIOPLAST® Pellet S and Pellet P Plus are successfully used in PC/ABS, PLA, POM and polyamide (PA) compounds for automotive and electrical/electronic applications, as well as in ABS compounds for appliances. As high-performance additives for engineering polymers, they can also improve the properties of your compound.

The following diagrams illustrate how GENIOPLAST® Pellet S significantly improves processing and surface properties in various materials.



Additives

- GENIOPLAST® Pellet S
- GENIOPLAST® Pellet P Plus (food compliant)



Dosage

1 – 5%



Applications

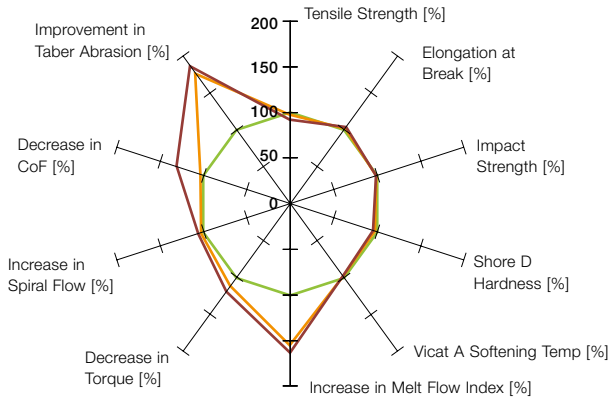
- Kitchen counter appliances
- Housing for PCs, laptops, printers etc.
- Vehicle construction
- Moving parts in electrical systems/electronics



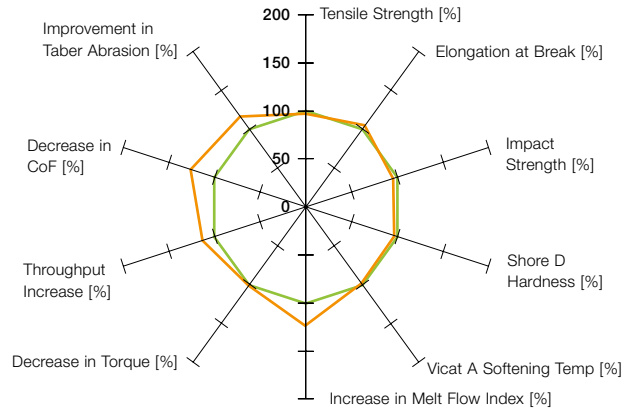
Key Benefits

- Reduced melt viscosity
- Better flow
- Lower CoF
- Better scratch and abrasion resistance

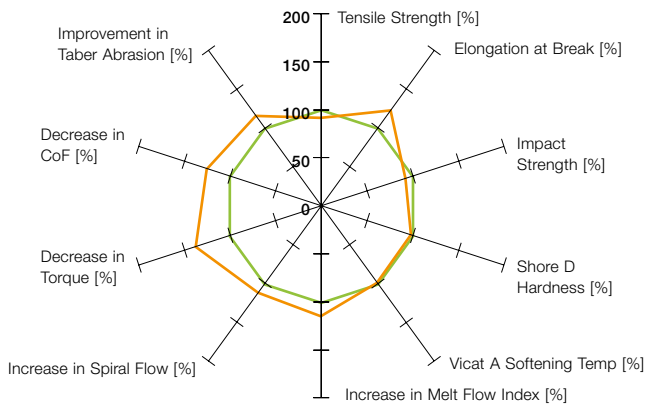
ABS/Talc (40%)



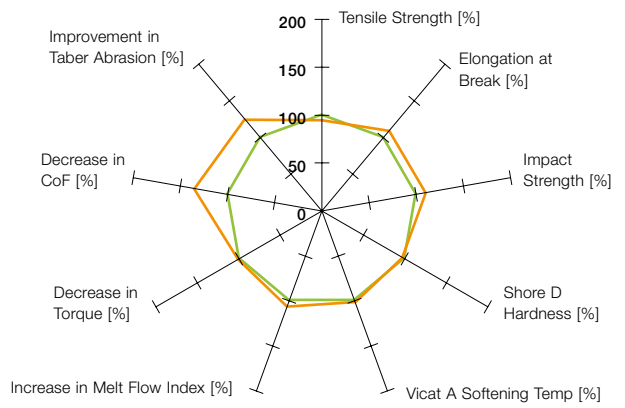
PA 6/6



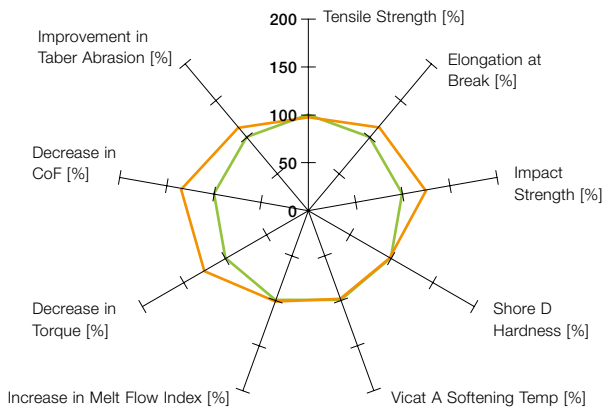
PA 6/6, Glass Filled (35%)



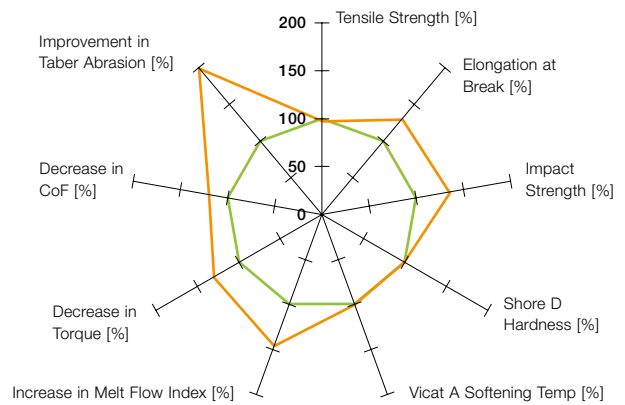
ABS



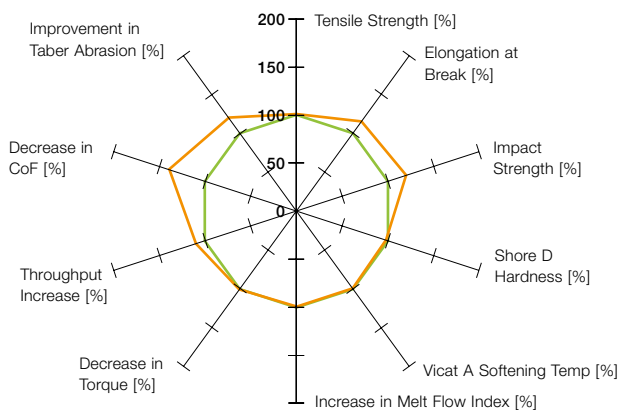
PC/ABS



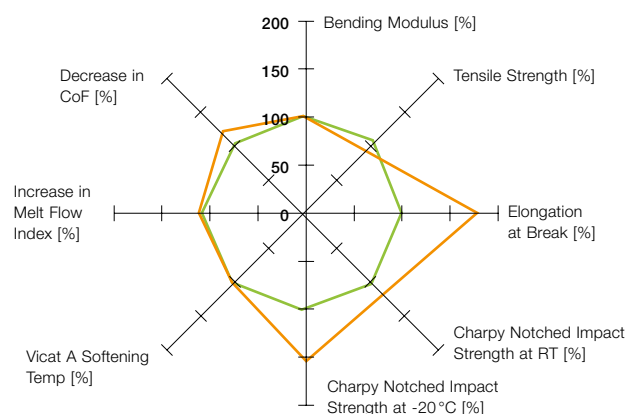
POM, Mineral Filled (30%)



PPE/HIPS



PLA



■ Base polymer ■ +1.0% GENIOPLAST® Pellet S ■ +3.0% GENIOPLAST® Pellet S

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